CLAIMS

WHAT IS CLAIMED IS:

1. A method for analyzing a program, comprising the steps of:

logging a plurality of stack traces and respective tags in a log file at respective points during execution of the program; and

marking one or more interesting tags within the log file.

2. The method according to claim 1, further comprising the step of:

producing a report based on the log file.

3. The method according to claim 2, wherein the step of producing the report includes:

identifying one or more of the stack traces that are associated with any of the one or more interesting tags; and

producing the report based on the identified one or more of the stack traces.

4. The method according to claim 2, wherein producing the report includes:

identifying a last stack trace that is associated with one of the one or more interesting tags; and

producing the report based on the identified one or more of the stack traces.

5. The method according to claim 1, wherein:

the tags indicate respective addresses of allocated objects; and

the one or more interesting tags indicate one or more respective addresses of migrated objects.

6. A method for producing a diagnostic report for a program, comprising the steps of:

accessing a log file comprising a list of stack traces and respective tags at respective points during execution of the program and comprising one or more interesting tags; and

producing the diagnostic report based on the log file.

7. The method according to claim 6, wherein the step of producing the report includes:

identifying one or more of the stack traces that are associated with any of the one or more interesting tags; and

producing the report based on the identified one or more of the stack traces.

8. The method according to claim 6, wherein producing the report includes:

identifying a last stack trace that is associated with one of the one or more interesting tags; and

producing the report based on the identified one or more of the stack traces.

9. The method according to claim 6, wherein:

the tags indicate respective addresses of allocated objects; and

the one or more interesting tags indicate one or more respective addresses of migrated objects.

10. A computer-readable medium bearing instructions for analyzing a program, said instructions being arranged to cause one or more processors upon execution thereby to perform the steps of:

logging a plurality of stack traces and respective tags in a log file at respective points during execution of the program; and

marking one or more interesting tags within the log file.

11. The computer-readable medium according to claim 10, further bearing instructions for performing the step of:

producing a report based on the log file.

12. The computer-readable medium according to claim 11, wherein the step of producing the report includes:

identifying one or more of the stack traces that are associated with any of the one or more interesting tags; and

producing the report based on the identified one or more of the stack traces.

13. The computer-readable medium according to claim 11, wherein producing the report includes:

identifying a last stack trace that is associated with one of the one or more interesting tags; and

producing the report based on the identified one or more of the stack traces.

14. The computer-readable medium according to claim 10, wherein:

the tags indicate respective addresses of allocated objects; and

the one or more interesting tags indicate one or more respective addresses of migrated objects.

15. A computer-readable medium bearing instructions for producing a diagnostic report for a program, said instructions being arranged to cause one or more processors upon execution thereby to perform the steps of:

accessing a log file comprising a list of stack traces and respective tags at respective points during execution of the program and comprising one or more interesting tags; and

producing the diagnostic report based on the log file.

16. The computer-readable medium according to claim 15, wherein the step of producing the report includes:

identifying one or more of the stack traces that are associated with any of the one or more interesting tags; and

producing the report based on the identified one or more of the stack traces.

17. The computer-readable medium according to claim 15, wherein producing the report includes:

identifying a last stack trace that is associated with one of the one or more interesting tags; and

producing the report based on the identified one or more of the stack traces.

18. The computer-readable medium according to claim 15, wherein:

the tags indicate respective addresses of allocated objects; and

the one or more interesting tags indicate one or more respective addresses of migrated objects.